## **NEW THINGS THE SHOWS BRING FOR MOTORISTS**

Roomier Bodies, Left Drive and Cowl Dashes Are Some

of Them. MORE ELECTRIC EQUIPMENT

aighting Systems and Self-Starters, Too, Are Included by Many Makers.

### By H. DUNBAR WESTINGHOUSE.

Just because automobiles have reached Just because automorphis have reached their present state of perfection does not mean that 1913 models will not show many new features of construction. On the contrary motor enthusiasts who just at this time are awaiting the opening of the Automobile Show in Grand Central Palace and Madison Square Garden will see many points new and interesting in this season's offering. Practically without exception every manufacturer has semething novel to offer either in the way of added equipment—a feature of the 1913 product—or else some important change in construction calculated to render easier and smoother action. Palace and Madison Square Garden render easier and smoother action of

Bodies, for instance, are larger and Hodies, for instance, are larger and roomier this year than ever before. More than ever is the coupe in evidence. Several prominent manufacturers who never before have listed coupe models have added them for the first time this year and the increase in production of these handy little "all weather" vehicles

presages their widespread use.

The popularity of left drive with cen-trally located central levers is increasing. Few manufacturers of the newer crop have designed their vehicles to be driven from the right side, and the manu-facturers of older and better known cars The to take proceedings against the Daimler from the cheapest to the most expensive gradually are adopting left drive. The object of the change from orthodox contruction is to permit easier entrance and struction is to permit easier entrance and exit to the driver's seat. To make even more prominent this feature several manufacturers have placed their gear shift levers between the two front seats, where they are entirely out of the way. In appreciation of the fact that not everybody likes the left hand position of the statement of the several core services. the steering wheel several cars are now fitted so that the option of either posi-

tion may be given.

Another feature which is brand new this year and which bears directly on the ease with which a car may be controlled lies in the adoption of deep cowl dashes turned under at the inside and mount the usual array of ignition switches, carbureter adjustment, engine starter and lighting switches. In this way, the controlled apparatus is placed nearer to the driver, where it is continually under his eve and it can be reached with the minimum of exertion.

Carrying the idea still further, the manufacturer has located all such apparatus in a small switchboard, which attaches directly to the steering column beneath the steering wheel. On all such apparatus boards and on the dashes of very nearly

his lighting equipment a swivelling hand searchlight to facilitate the reading of

searchlight to facilitate the reading of toad signs and as a means to reveal the landscane at the sides usually left in darkness by the head lamps.

Among the mechanical features of the new cars, also, there are wanny new things. The strife for silence still goes merrily forward and the enclosure of the valve mechanism, which became noticeable last var, is even more apparent tills year. Methods of fastening the valve covers are better, however, and in nearly every case they are more easily removable than they have been in the past. The use of spirally cut goers which slide into the content of the correction of the care was off the rim until entire the correction of the care was off the rim until entire they have been in the past. The use of spirally cut goers which slide into the care was off the worst stretches. The other three tires on the car have done to the care than they have been in the past. The use of spirally cut gears which slide into engagement instead of coming together abruptly is increasing steadily, and timing gear train was their principal feature, this year a number of manufacturers employ spirally cut gears between the driven and lay shafts in their ransmission mechanisms. Naturally, the sears are made more quiet.

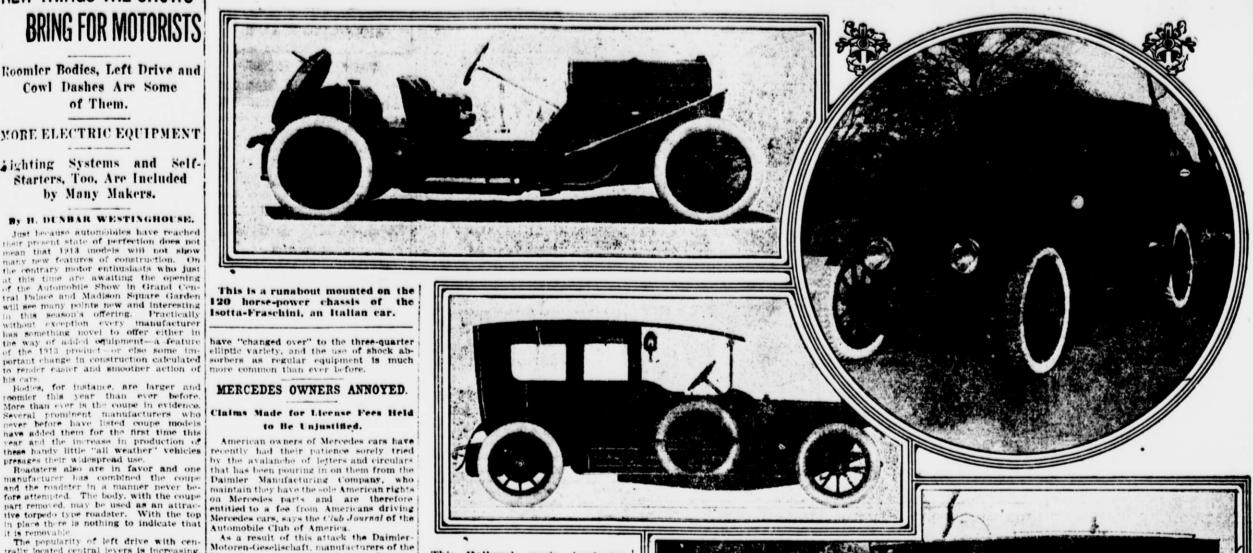
There is a tendency to drive the cam shafts as well as the magneto and water sump shafts by means of silent chains. Greater efficiency and silence of operation are the principal reasons for their use. Needless to say, in all this search for greater efficiency and smoother running the comfort of passengers has not been overlooked. be speaker efficiency and smoother running the comfort of passengers has not been overlooked. Deep upholstery now is the rule rather than the exception and some manufacturers even have gone to the length of providing cushions fourteen inches thick. One manufacturer regularly equips his cars with cushions no less than eighteen inches in thickness.

Spring suspension the beautiful and the control of the contro

eighteen inches in thickness.

Spring suspension also bears important relation to the comfort of passengers, to say nothing of its effect on the life of the car's mechanism, and a number of manufacturers have very nearly completely redesigned their supports in order to provide greater resiliency and at the same time to reduce the rebound and joit generally inherent with more than ordinarily flexible springs. Several prominent manflexible springs. Several prominent man-ufacturers whose vehicles last year were

SOME FOREIGN CARS AT COMING "SALON"



This Holbrook made landautet limousine is on a Mercedes 28-50 to claim license fees from the American chassis. The roof is so built that most of it folds forward over the door instead of backward in the overhang,

Mercedes cars, maintain that the Daimler Manufacturing Company have not the right

Manufacturing Company on behalf of the American users of Mercedes.

An idea of the manner in which the situa

discrete the discrete services of Mercedes cars. The circular is written on Daimler Manufacturing Company stationery and is signed by H. B. Atkins, president. It is headed "The Use of an Unicensed Mercedes Car in

Tire Man's Own Casing Ran Far.

7,300 miles and are still going.

# tion has been handled is shown from the following letter circular, sent to all of the American owners of Mercedes cars. The BE AN ELABORATE TASK

articles of commerce make natural the trade increase across the border." New Oakland Model Is Out.

The first Oakland Model 35 five passenger New-Miller Carburcter at Shows. ouring car, the baby of the 1913 line manufactured by the Oakland Motor Car Com-pany of Pontiac, is finished and deliveries will probably be made in January. Milet Manufacturing Company of Indian-apolis. In the New-Miller carbureter, among other features embodied is a pro-vision for regulating the needle valve opening from the driving seat, and another the absence of all springs and spring control valves. The needle valve lifter and air valve attachment are connected directly with the throttle. en bloc motor is used with a three bear-ing crank shaft. This motor has developed on the block 31 horse-power at 1,800 revolu-tions a minute. The radiator is V shaped. The upholstering is ten inches deep. The car is finished in battleship gray and is full equipped.

Harold F. McCormick of Chicago was the possessor of a horse drawn brougham of good design and workmanship, built by one of the well known carriage builders of the country. Mr. McCormick, although he is devoted to the motor car, did not desire to part with this example of the carriage builder's art.

Accordingly he took the body of his horse drawn brougham to one of the body builders of Chicago to have it mounted on the chassis of a Chalmers Thirty-six. Mr. McCormick has neglected none of the details. As the car is regularly seen on the streets there are always two liveried men up in front, the driver and the footman. The chassis has been repainted in the color scheme of the brougham body, and the liveries of the attendants are also in harmony.

New-Miller Carburcter at Shows.

Among other new things at the shows will be the carburcter display of the New-Miller Manufacturity Company of Indian apolis. In the New-Miller carbureter,

solely for the purchase of crushed rock and other necessary building material. The Ocean-to-Ocean Highway Association is to do no construction work, but will make contracts with the various States and counties through which the road runs, to put our material on the road as per specifications prepared and given us by Mr. Lucius came direct from the

"The fund of \$10,000,069 will give us more than \$5,000 a mile to spend on materials for this road. Some of the best rock roads in northern Indian and northern Ohla, nine feet wide and tweive inches thick of rock, with two inches of screenings, cost for material atone, \$2.276 a mile. Labor to complete this road—rolling, sprinkling, ciling, &c.—brings the total cost up to \$4.100 per mile. The contractor's profit usually is \$800 to \$1,000 a mile. From this it will be seen that the cost of building material, such as we troposed to the cost of building material, such as we troposed to the cost of building material, such as we troposed to the cost of building material.

### TO SPREAD PANHARD-KNIGHTS. Agencies Through the Middle West Are to Be Established.

As a result of the activities of Robert Lucius, representative of the Panhard-Levassor factory agencies for the more extensive dis-tribution of Panhard Silent Knight motor cars will be established not only in Chicago, but in most of the

specifications prepared and given us by the United States Government engineers and inspected by United States engineers without charge to us. In a few instances stitute the agencies, each clearing from the Panhard factory branch in State cooperation in this construction is feasible; but in most instances it is advistible to deal directly with the counties.

The property of the Panhard company.

### A New Marion Model.

pose to buy, represents only from 30 to 50 per cent. of the cost of the road so that for our \$10,000,000 cash we will receive a \$25,000,000 cash we will cash we will cash we will cash we we will cash we will cash we will cash we we will cash we will cash we wil

# OIL COMPANIES ABLE TO CUT DOWN GASOLENE

Remedy for Present Situation Lies in Hands of the Producers.

MEANS CHANGE IN PROCESS

Production of Lower Grade Fuel on "Long Cuts" Would Do It.

A lower price for gasolene whenever the oil companies see fit to reduce is within the grasp of any of them, according to an engineer acquainted with the trade who was interviewed recently. As long as the "other fellows" are able to get the higher prices no one will come down, s his opinion. Furthermore the likelihood is that if one company undersells the market its rivals may bring down the prices on road oil, bitumen and other such by-products which are the most profitable of the derivatives of petroleum.

He suggests a way that would effect a ready relief in the present market condition, which has come to be a serious matter to owners and makers of automobiles. It is perhaps a trifle technical, but is effectual, he says. "Long cuts," as they are termed in the petroleum industry, afford the solution, which, according to him, is immediately available.

"Gasolene, or naphtha, as is well known s distilled from crude benzine, which is distilled from crude oil," it is explained in Motor World. "The crude benzine is placed in stills which are heated by steam ; as the vapors pass over they are con-

as the vapors pass over they are condensed. This condensation is divided as it comes from the condenser into fractions or cuts. The first fractions, being very volatile, are called the light end and the latter the heavy end."

The engineer quoted maintains that by making a long cut from the light end down to say a Baume gravity of 54 degrees it would serve the purpose. This long cut must embody all of the fractions of the distillate in their order, the light and volatile parts taking care of the quick ignition of the charge, while the heavy end will take care of the expansion so necessary to the operation of automobile engines.

end will take care of the expansion of automobile necessary to the operation of automobile engines.

A long cut with none of the intermediate fractions having been drawn of, immediately will so greatly increase the production of automobile tent that it will make possible a price more nearly approximating that which obtained less than a year ago, when nine cents a gallon was the prevailing rate. If the oil companies will not adopt this measure of relief, the engineer states that there is a way of forcing them, to do so and a way that would serve so many good purposes that it appears worth while.

"It was the law which compelled the production of fuel at a certain specified flash test that is directly responsible for the uniformity of the kerosene which can be obtained to-day at almost any grocery store in any part of the country, said he in outlining his views in Moser world." and whenever a similar law is an 18 horse-power Minerva, with a De Ruyter limousine body. These cars will be exhibited at the importers would be a country, and whenever a similar law is brought to bear on gasolene the same result will be obtained. Flash tests will

And the state of t

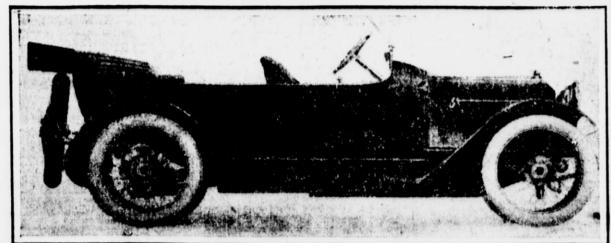
air is heated too greatly and therefore is robbed of much useful oxygen. We have all heard the old question, 'Why does an engine run better after sundown?' and the answer is simple: The heat of the sun expands the air and thins the molacules of oxygen in a given atmosphere. In the evening the air is fully of oxygen and a better running engine results. "What the use of kerosene as an automobile fuel means is clear to all who care "What the use of kerosene as an automobile fuel means is clear to all who care to see. At present that portion of petroleum is practically a drug on the market. 20 per cent. of the entire distillate of the average crude being kerosese, as compared with 5 per cent. which is gasolene of a gravity that is suitable to the man who determines the efficiency of his fuel with a hydrometer. Allowing that 5 per cent. of the total distillate, or one-fourth of the kerosene manufactured, is used for illuminating and other purposes, our present supply of fuel

purposes, our present supply of fuel would be multiplied three times. There could be no reasonable excuse given by the oil man for an increase over

the present price, provided kerosene were universally used. It could be handled in tank wagon lots instead of the present unprofitable method of delivering gaso-iene in drums, and could be stored in larger quantities without any great risk. Insurance rates, which indirectly have much to do with the high cost of gasolene, would be lowered.
"The opportunities to relieve the situa-

mile. From this it will be seen that the cost of building material, such as we tropped to buy, represents only from 36 to 56 per cent. of the cost of the toy 4, so that for our \$10,000,000 cash we \$0.01 receive a \$25,000,000 road, run. 2 from coast to coast.

Edwards-Knight, a Newcomer in Motor Field



An unusual new car is the Edwards-Knight. As the name indicates, it has a Knight motor. Undertype worm equipped with semi-elliptic rear springs drive, a sort of cantilever rear spring and wire wheels are some of the features.